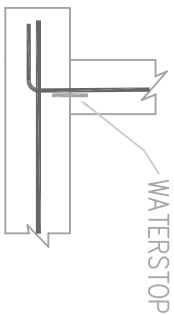



- NOTES:
1. SPLICE MARK **(D)** AND MARK **(E)** BARS.
  2. PLACE **(C)** BAR @ 6" SPACING FROM **(D)** BAR.

[illegible]

CONCRETE (0.32 CU. YDS./LIN.FT.) _____ CU. YDS.
STEEL #4 (20.3 FT./LIN. FT.) _____ FT.
STEEL #5 (8.5 FT./LIN. FT.) _____ FT.
STEEL #6 (5.5 FT./LIN. FT.) _____ FT.
STEEL (74.5 FT./CORNER) _____ FT.

TOTAL LENGTH OF WALL \_\_\_\_\_ FT.



- C.J. = CONSTRUCTION JOINT
- LIQUID-TIGHT JOINT \_\_\_\_ YES \_\_\_\_ NO
- LIQUID-TIGHT JOINT OPTIONS
- 1) NON-METALLIC WATERSTOP (PVC)
  - 2) HYDROPHILIC WATERSTOP
- 
1. IF SLAB AND WALL ARE POURED SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT OF NEW CONCRETE.
2. THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.

6-FOOT WALL CORNER DETAILS	SEE PA-027E
SLAB CORNER DETAILS	SEE PA-023
RESTRAINING SLAB OPTIONS	SEE PA-024

GENERAL DESIGN NOTES:

- DRAINAGE SHALL BE AWAY FROM THE WALL.
- THE MINIMUM TOP WIDTH OF THE BACKFILL AGAINST THE WALL SHALL BE EQUAL TO OR GREATER THAN THE BACKFILL HEIGHT.
- MAXIMUM FOOTING CONTACT PRESSURE IS 1180 psf/ft.

## DESIGN STRENGTHS: WORKING STRESS DESIGN

CONCRETE  $f_c = 4,000$  psi STEEL  $f_s = 20,000$  psi (GRADE 40)

WALL DESIGN LOADING: 313 STANDARD – LATERAL EARTH PRESSURE VALUES, SEE SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE.

- MANURE LOAD INSIDE = 65 psf/ft.
- SOIL BACKFILL LOAD OUTSIDE = 60 psf/ft.
- 120 psf HORIZONTAL SURCHARGE OR A 2.5:1 SLOPING BACKFILL IS ALLOWED.
- SOIL BACKFILL DENSITY = 110 pcf.
- WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

## WALL RESTRAINT REQUIREMENTS:

• 5" THICK SLAB, SAFETY FACTOR AGAINST SLIDING 1.5 MIN.

BACKFILL HEIGHT (OUTSIDE LOAD)	SLAB LENGTH NO INSIDE LOAD	SLAB LENGTH FULL INSIDE LOAD
6 FEET	56 FEET	NO SLAB
5 FEET	37 FEET	NO SLAB
4 FEET	21 FEET	NO SLAB
3 FEET	7 FEET	5 FEET **
2 FEET	NO SLAB	5 FEET **
1 FOOT	NO SLAB	5 FEET **
0 FEET	NO SLAB	5 FEET **

\*\*MINIMUM SLAB LENGTH OF 5 FEET REQUIRED AND MUST BE TIED INTO THE WALL FOOTING.

SLAB POURED WITH WALL FOOTING:

#3 BARS @ 18" SPACING.

SLAB NOT POURED WITH WALL FOOTING:

#3 DOWEL BARS - 3'-0" LENGTH @ 2'-0" SPACING.

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WISCONSIN 53717-2906



\_\_\_\_\_ COUNTY, PENNSYLVANIA

6' HIGH, 8" T-WALL (W/SURCHARGE)

Date  
\_\_\_\_\_

**06/23/05**

Designed \_\_\_\_\_  
 Drawn **TJA** \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved by \_\_\_\_\_

**File No.**  
**PA-0222**

Drawing No. 07/06/07 12:54

PA-022B

Sheet: \_\_\_\_\_

(ADAPTED FROM WI-564, APRIL 2005)